



C-TECH UNITED CORP.

西勝國際股份有限公司

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SAFETY DATA SHEET

Date: 2025/1/1

Rev: 15

Ref. no.:SD2001

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Lithium Ion Rechargeable Battery Pack

CUSTOMER : SRAM

CUSTOMER P/N : 29.3018.114.000

C-Tech P/N : 000000220E

MODEL NAME : M/N 25403

CAPACITY : 300mAh(Min)

POWER(Watt-Hour rating) : 2.22Wh

APPROXIMATE WEIGHT : 25g±5g

MANUFACTURER : C-TECH United Corp.

ADDRESS : 5F, NO. 665, Zhongzheng Rd., Xinzhuang District, New Taipei City, Taiwan.

TELEPHONE : +886 -2-29016600

Factory : C-TECH United Corp.

ADDRESS : 5F, NO. 669, Zhongzheng Rd., Xinzhuang District, New Taipei City, Taiwan

TELEPHONE : +886 -2-29017666

SRAM Emergency Call : +1 352-323-3500

SECTION 2: HAZARDS IDENTIFICATION

PROTENTIAL HEALTH EFFECTS

PRIMARY ROUTES OF ENTRY

Skin contact, Skin absorption, Eye contact, Inhalation, and Ingestion : No

SYMPTOMS OF EXPOSURE

Skin contact

No effect under routine handling and use.

Skin absorption

No effect under routine handling and use.

Eye contact

No effect under routine handling and use.

Inhalation

No effect under routine handling and use.

SECTION 3: INGREDIENT

BATTERY CELL

Material Or Ingredient	CAS #	%/wt.
Lithium Cobalt Oxide	12190-79-3	25~45%
Graphite	7782-42-5	15-28%
Lithium Hexafluorophosphate	21324-40-3	0~20%

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Binder(SBR)	9003-55-8	0~3%
Cu foil	7440-50-8	3.5~11%
Binder(PVDF)	24937-79-9	0.1~1%
Al foil	7429-90-5	1~8%
Conductivity	7440-44-0	0.1~1%
Propyl Propionate	106-36-5	0~30%
Ethyl Propionate	105-37-3	0~15%
Ethylene Carbonate	96-49-1	0~15%
Propylene Carbonate	108-32-7	0~10%

SECTION 4: FIRST AID MEASURES

INHALATION, EYE CONTACT, and SKIN CONTACT : Not a health hazard.

INGESTION

If swallowed, obtain medical attention immediately.

If exposure to internal materials within cell(pack) due to damaged outer casing, the

Following actions are recommended.

INHALATION

Leave area immediately and seek medical attention.

EYE CONTACT

Rinse eyes with water for 15 minutes and seek medical attention.

SKIN CONTACT

Wash area thoroughly with soap and water and seek medical attention.

INGESTION

Drink milk/water and induce vomiting; seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 GENERAL HAZARD

Cell is not flammable but internal organic material will burn if the cell is incinerated.

Combustion products include, but are not limited to hydrogen fluoride, carbon monoxide and carbon dioxide.

5.2 EXTINGUISHING MEDIA

Use extinguishing media suitable for the materials that are burning.

5.3 SPECIAL FIRE FIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent.

5.4 FIREFIGHTING EQUIPMENT

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 ON LAND

Place material into suitable containers and call local fire/police department.

6.2 IN WATER

If possible, remove from water and call local fire/police department.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

No special protective clothing required for handling individual cells.

7.2 STORAGE

Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Keep away from heat and open flame. Store in a cool dry place.

8.2 PERSONAL PROTECTION

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required beyond safety practices of employer.

Gloves: Not required for handling of cells. Foot protection: Steel toed shoes recommended for large container handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Solubility in water:	Insoluble
Color	Black	Vapor pressure	Not Applicable
Odor	Not Applicable	Explosion limit	Not Applicable
Flashpoint	Not Applicable	Auto flammability	Not Applicable
Solubility in ethanol soluble	Not Applicable	Melting Point	Not Applicable
Boiling Point	Not Applicable	Freezing Point	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

None.

10.2 INCOMPATIBILITIES

None, during normal operation. Avoid exposure to heat, open flame, and corrosives.

10.3 HAZARDOUS DECOMPOSITION PRODUCTS

None, during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.



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10.4 CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

SECTION 11: TOXICOLOGICAL INFORMATION

This product does not elicit toxicological properties during routine handling and use.
Sensitization: NO , Teratogenicity: NO, Reproductive toxicity: NO, Acute toxicity: NO
This product does not contain any kinds of the following substances and halogen-type flame retardants including Chlorine and Bromide type harmful flame retardants which are listed in Appendix of TCO documents and relevant international ECO requirements:

Polybromated Biphenyls (PBB)
Polybromated Diphenylethers (PBDE)
Polychlorinated Biphenyls (PCBs)
Polychlorinated Terphenyls(PCTs)
Polychlorinated Naphthalene(PCN)
Chlorinated Paraffins(C10-C13)
Chlorofluorocarbons(CFCs)
Polyvinyl Chloride(PVC)
Carbon Tetrachloride

None of the following substances will be exposed, leaked, or emitted during transportation, storage or any operation and any temperature condition:

Chlorinated Fluorohydrocarbon (FCKW)
Acrylonitrile
Styrol
Phenol
Benzol
Mercury of greater than 0.0001 wt% for alkaline battery
Mercury of greater than 0.0005 wt% for other battery
Lithium content of greater than 0.5g/battery cell
Cadmium, lead, and other harmful heavy metal

And will comply with the regulation of 49 CFR (DOT regulation), International Air Transport Association (IATA), and Deuche Forschungsgemeinschaft (DFG) regarding concentrations of emitted substances.

This product does not contain mercury and cadmium.

Mercury content: N/A

Cadmium content: N/A

If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers.



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SECTION 12: ECOLOGICAL INFORMATION

Some materials within the cell are bio-accumulative. Under normal conditions, these materials are contained and pose no risk to persons or the surrounding environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

The International Air Transport Association (IATA) Dangerous Goods Regulations (66th Edition, 2025). Packing instruction 965 IA/IB/ Section II for Lithium Ion battery.

The International Maritime Dangerous Goods (IMDG) Code, 2022 Edition (Incorporating Amendment 41-22) with special provision 188 & 230.

US Hazardous Materials Regulations 49 CFR(Code of Federal Regulations) Sections 173.185 Lithium batteries and cells.

The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, ST/SG/AC.10/11/Rev.8 (UN3480) .

UN regulation

UN number: 3480 (3481 when the battery is contained in equipment or packed with equipment)

Proper shipping name: Lithium ion batteries ("lithium ion batteries contained in equipment" or "lithium ion batteries packed with equipment") Class: 9 * * Although this product meets the criteria of "dangerous goods" and are classified as "lithium ion batteries", depending on the battery's total capacity in the packaging, etc., they may not be subject to the fully regulated provisions.

SECTION 15: REGULATORY INFORMATION

OSHA hazard communication standard (29 CFR 1910.1200)

____Hazardous __V__ Non-hazardous

SECTION 16: OTHER INFORMATION

Package if damaged: Do not load or transport.

C-tech contact window: Hope Lee

For more information, call: +886-2-29016600